





1633

RAW SEQUENCE LISTING

DATE: 05/25/2000 PATENT APPLICATION: US/09/388,221A

TIME: 15:49:41

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3 <110> APPLICANT: Reed, John C.
 5 <120> TITLE OF INVENTION: Novel Card Proteins Involved in Cell Death Regulation
 7 <130> FILE REFERENCE: P-LJ 3650
 9 <140> CURRENT APPLICATION NUMBER: 09/388,221A
10 <141> CURRENT FILING DATE: 1999-09-01
12 <160> NUMBER OF SEQ ID NOS: 18
14 <170> SOFTWARE: PatentIn Ver. 2.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 4422
18 <212> TYPE: DNA
19 <213> ORGANISM: Homo sapiens
21 <220> FEATURE:
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30 aag aag gag ctg aag gag ttc cag ctt ctg ctc gcc aat aaa gcg
31 Lys Lys Glu Glu Leu Lys Glu Phe Gln Leu Leu Leu Ala Asn Lys Ala 32 20 25 30
34 cac tee agg age tet teg ggt gag aca eee get eag eea gag aag aeg
35 His Ser Arg Ser Ser Ser Gly Glu Thr Pro Ala Gln Pro Glu Lys Thr
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                                   40
38 agt ggc atg gag gtg gcc tcg tac ctg gtg gct cag tat ggg gag cag
39 Ser Gly Met Glu Val Ala Ser Tyr Leu Val Ala Gln Tyr Gly Glu Gln
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42 cgg gcc tgg gac cta gcc ctc cat acc tgg gag cag atg ggg ctg agg
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43 Arg Ala Trp Asp Leu Ala Leu His Thr Trp Glu Gln Met Gly Leu Arg
44 65 70 75 80
46 toa ctg tgc gcc caa gcc cag gaa ggg gca ggc cac tct ccc tca ttc 47 Ser Leu Cys Ala Gl_{
m I} Ala Gl_{
m I} Glu Gly Ala Gl_{
m I} His Ser Pro Ser Phe
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50\ \text{ccc} tac agc cca agt gaa ccc cac ctg ggg tct ccc agc caa ccc acc
51 Pro Tyr Ser Pro Ser Glu Pro His Leu Gly Ser Pro Ser Gln Pro Thr
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                                      105
                                                            110
54 tec acc gea gtg eta atg eec tgg atc eat gaa ttg eeg geg ggg tge
55 Ser Thr Ala Val Leu Met Pro Trp Ile His Glu Leu Pro Ala Gly Cys
56 115 120 125
58 acc cag ggc tca gag aga agg gtt ttg aga cag ctg cct gac aca tct 59 Thr Gln Gly Ser Glu Arg Arg Val Leu Arg Gln Leu Pro Asp Thr Ser 60 130 135 140
62 gga cgc cgc tgg aga gaa atc tct gcc tca ctc ctc tac caa gct ctt
63 Gly Arg Arg Trp Arg Glu Ile Ser Ala Ser Leu Leu Tyr Gln Ala Leu
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66 cca age tee cca gae cat gag tet cca age cag gag tea cee aac gee
67 Pro Ser Ser Pro Asp His Glu Ser Pro Ser Gln Glu Ser Pro Asn Ala
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103 104 106	Glu 305 ggd	Glu Coto	Asr gat	acc	Gly caa	His 310 gaa	Leu	Ile	Glu ata	Ile	Arg 315 ata	Asp	Leu cag	Phe ggg	Gly gct	Pro 320 gct	
103 104 106	Glu 305 ggc	Glu Coto	Asr gat	acc	Gly caa	His 310 gaa Glu	Leu	Ile	Glu ata	Ile	Arg 315 ata Ile	Asp	Leu cag	Phe ggg	Gly gct	Pro 320 gct Ala	
103 104 106 107 108	Glu 305 ggc	Glu ctg Leu	Asr gat Asp	acc Thr	Gly caa Gln 325	His 310 gaa Glu	Leu cct Pro	Ile cgc Arg	Glu ata Ile	gto Val	Arg 315 ata Ile	Asp ctg Leu	Leu cag Gln	Phe ggg Gly	gct Gly Gly Gct Ala 335	Pro 320 gct Ala	
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103 104 106 107 108 110	Glu 305 ggo Gly gga Gly	Glu Glu C ctg Leu Leu	Asr gat Asr	acc Thr	Gly caa Gln 325 tca Ser	His 310 gaa Glu aca	Leu cct Pro	cgc Arg	Glu ata Ile agg	gto Val 330 cag	Arg 315 ata Ile	Asp ctg Leu	Leu cag Gln gaa	ggg Gly gcc	get Ala 335 tgg	Pro 320 gct Ala	1008
103 104 106 107 108 110 111 112	Glu 305 ggd Gly gga Gly	Glu Cto Leu att	gat gat Asp ggg	according aag	Gly caa Gln 325 tca Ser	His 310 gaa Glu aca Thr	Leu cct Pro ctg	cgc Arg gcc Ala	ata Ile agg Arg	gto Val 330 cag	Arg 315 ata Ile gtg Val	Asp ctg Leu aag Lys	Leu cag Gln gaa Glu	ggg Gly gcc Ala	get Ala 335 tgg	Pro 320 gct Ala ggg Gly	1008
103 104 106 107 108 110 111 112	Glu 305 ggc Gly gga Gly	Glubs Cocto Leu Latt Ile	gat gat Asp ggg Gly	according aag	Gly caa Gln 325 tca Ser tat	His 310 gaa Glu aca Thr	Leu cct Pro ctg Leu	cgc Arg gcc Ala	ata Ile agg Arg 345	gtc Val 330 cag Gln	Arg 315 ata Ile gtg Val	Asp ctg Leu aag Lys	Leu cag Gln gaa Glu ttc	ggg Gly gcc Ala 350	g Gly get Ala 335 tgg Trp	Pro 320 gct Ala ggg Gly	1008
103 104 106 107 108 110 111 112	Glu 305 ggc Gly gga Gly aga	Glubs Cocto Leu Latt Ile	gat gat Asp ggg Gly	acco Thr aag Lys 340 ctg	Gly caa Gln 325 tca Ser tat	His 310 gaa Glu aca Thr	Leu cct Pro ctg Leu	cgc Arg gcc Ala	ata Ile agg Arg 345	gtc Val 330 cag Gln	Arg 315 ata Ile gtg Val	Asp ctg Leu aag Lys	Leu cag Gln gaa Glu ttc	ggg Gly gcc Ala 350 tac	g Gly get Ala 335 tgg Trp	Pro 320 gct Ala ggg Gly	1008
103 104 106 107 108 110 111 112 114 115	Gli 305 ggo Gly gga Gly aga Arc	c ctg b ctg Leu l att lle ggc	gat gat Asp ggg Gly cag Glr 355	acco Thr aag Lys 340 ctg	Gly caa Gln 325 tca Ser tat	His 310 gaa Glu aca Thr	cct Pro ctg Leu gac Asp	gcc Arg gcc Ala cgc Arg 360	ata Ile agg Arg 345 ttc	gtc Val 330 cag Gln cag	Arg 315 ata Ile Val Val Cat	Asp ctg Leu aag Lys gtc	cag Gln gaa Glu ttc Phe 365	ggg Gly gcc Ala 350 tac	gety Ala 335 tgg Trr	Pro 320 gct Ala G ggg Gly g agc	1008
103 104 106 107 108 110 111 112 114 115 116	Gli 305 ggd Gly gga Gly aga Arg	i Glu	gat gat Asr ggg Gly cag Glr 355	according aag Lys 340 ctg Leu ctg	Gly caaa Gln 325 tca Ser tat Tyr	His 310 gaa Glu aca Thr	cct Pro ctg Leu gac Asp	cgc Arg gcc Ala cgc Arg 360 aag	ata Ile agg Arg 345 ttc Phe	gtc Val 330 cag Gln cag	Arg 315 ata Ile ytg Val cat His	Asp ctg Leu aag Lys yal	Leu cag Gln gaa Glu ttc Phe 365	ggg Gly gcc Ala 350 tac Tyr	gety Alaman and Alaman	Pro 320 gct Ala ggg Gly	1008 1056 1104
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103 104 106 107 108 110 111 112 114 115 116 118 119	Gli 305 ggc Gly gga Gly aga Arg	atty Ile a ggc ggg ggg ggg ggg ggg ggg ggg ggg ggg	Asr gat Asr Gly Gly Gly Glr 355 gag	acco Thr aagg Lys 340 ctg Leu ctg	Gly caa Gln 325 tca Ser tat Tyr gcc Ala	His 310 gaa Glu aca Thr ggg Gly cag	cct Pro ctg Leu gac Asp tcc Ser 375	gcc Arg gcc Ala cgc Arg 360 aag Lys	ata Ile agg Arg 345 ttc Phe	gtc Val 330 cag Gln cag Gln gtg Val	Arg 315 ata Ile gtg Val Cat His	Asp ctg Leu aag Lys yal val	cag Gln gaa Glu ttc Phe 365 gct	ggg Gly gcc Ala 350 tac Tyr	get Gly get Ala 335 tgg Trr	Pro 320 gct Ala G ggg Gly agc Ser atc Ile	1008 1056 1104
103 104 106 107 108 110 111 112 114 115 116 118 119 120	Gli 305 305 305 307 307 307 307 307 307 307 307	i Glu i Glu i c ctg i att i Ile i ggc i Gly i aga i Arg i 370 i aaa	gat gat Asp ggg Gly cag Glr 355 gag Glu	acco Thr aagy Lys 340 ctg Leu ctg teu	Gly caa Gln 325 tca Ser tat Tyr gcc Ala	His 310 gaa Glu aca Thr ggg Gly cag Gln	cct Process ctg acc Asp tcc Ser 375 act	gcc Arg gcc Ala cgc Arg 360 aag Lys	ata Ile agg Arg 345 ttc Phe gtg Val	gtc Val 330 cag Gln cag Gln gtg Val	Arg 315 ata Ile gtg Val cat His	Asp ctg Leu Lys gtc Val ctc Leu 380	cag	ggg Gly gcc Ala 350 tac Tyr gag Glu	gety Ala 335 type tto Phe	Pro 320 gct Ala G ggg Gly agc Ser atc	1008 1056 1104 1152
103 104 106 107 108 110 111 112 114 115 116 118 120 122 123	Gli 305 305 305 305 307 307 308 308 308 308 308 308 308 308	a Glu i Glu i Glu i att i Ile i ggo i Gly Gly Gly aga 370 i aaa i Lys	gat gat Asp ggg Gly cag Glr 355 gag Glu	acco Thr aagy Lys 340 ctg Leu ctg teu	Gly caa Gln 325 tca Ser tat Tyr gcc Ala	His 310 gaa Glu aca Thr ggg Gly cag Gln	cct Process ctg Leu gac Asp tcc Ser 375 act Thr	gcc Arg gcc Ala cgc Arg 360 aag Lys	ata Ile agg Arg 345 ttc Phe gtg Val	gtc Val 330 cag Gln cag Gln gtg Val	Arg 315 ata Ile gtg Val cat His	Asp Leu Lys Lys Ctc Val Ctc Leu 380 aga Arg	cag	ggg Gly gcc Ala 350 tac Tyr gag Glu	gety Ala 335 type tto Phe	Pro 320 gct Ala G ggg Gly agc Ser atc Ile	1008 1056 1104 1152
103 104 106 107 108 110 111 112 114 115 116 118 120 122 123 124	Gli 305 gga Gly Gly Arg Cys	a Glu Leu Leu Att Gly Gly Gly Gly Arg 370 Aaaa Lys	gat gat Asp ggg Gly Cag Glr 355 gag Glu gat Asp	acco Thr aagg Lys 340 ctg ctg Ctg Ctg Ctg Ctg Ctg Ctg	Gly caa Gln 325 tca Ser tat Tyr gcc Ala	His 310 gaa Glu aca Thr ggg Gly cag Gln gcc Ala 390	cct Pro ctg Leu gac Asp tcc Ser 375 act	cgc Arg 360 aag Lys	ata Ile agg Arg 345 ttc Phe gtg Val	gtc Val 330 cag Gln cag Gln yal	Arg 315 ata Ile ytg Val cat His agt Ser att Ile 395	Asp ctg Leu Lys ytc Val ctc Leu 380 aga Arg	cag Glu Glu ttc Phe 365 gct Ala Cag	ggg Gly gcc Ala 350 tac Tyr gag Glu atc	gety and a second secon	Pro 320 gct Ala G ggg Gly c agc Ser atc Ile	1008 1056 1104 1152
103 104 106 107 108 110 1112 114 115 116 118 119 120 122 123 124 126	Glusses Gly	attraction of the control of the con	Asr gat Asr ggg Gly Cag Glr 355 gag Glu gat Asr	acco Thr aagy Lys 340 ctg ctg ctg ctg ctg	Gly caa Gln 325 tca Ser tat Tyr Ala aca Thr	His 310 gaa Glu aca Thr ggg Gly cag Gln gcc Ala 390 ctc	cct Process Leu gac Asp tcc Ser 375 act Thr	cgc Arg GCA Ala cgc Arg 360 aag Lys ccg Pro	ata Ile agg Arg 345 ttc Phe val	gtc Val 330 cag Gln cag Gln yal ccc Pro	Arg 315 ata 11e ytg Val cat His agt Ser att 11e 395	Asp ctg Leu Lys Val ctc Leu 380 aga Arg	cag Gln gaa Glu ttc Phe 365 gct Ala cag Gln	ggg Gly gcc Ala 350 tac Tyr gag Glu atc	gety and a second secon	Pro 320 gct Ala G ggg G Gly c agc Ser atc Ile G tct Ser 400	1008 1056 1104 1152 1200
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103 104 106 107 108 110 111 112 114 115 116 118 119 120 123 124 126 127 128	Glusses Glusse	in Glu in Glu in att in att in ggc in ggc	a Asr gat Asp gag gag Gly 355 gag gag Gly gag gag Gly	a Arg	caa Gly caa Gln 325 tca Ser tat Tyr gcc Ala aca Thr	His 310 gaa Glu aca Thr ggg Gly cag Gln gcc Ala 390 ctc Leu	cct Pro ctg Leu gac Asp tcc Ser 375 act Thr	cgc Arg 360 aag Lys ccg Pro	ada Ile agg 345 ttc Phe gtg Val gct Ala	gtc Val 330 cag Gln cag Gln gtg Val ccc Progat Asp 410	Arg 315 ata Ile gtg Val cat His ser att Ile 395 ggt	Asp ctg Leu aaag Lys gtc Val ctc Leu aag Arg	cag Gln gaa Glu ttc Phe 365 gct Ala cag Gln	ggg Gly gcc Alaa 350 tac Tyr gag Glu atc	goty Alaman and Alaman	Pro 320 gct ala ggg ggg gly agc ser atc lle tct 400 gga gGly	1008 1056 1104 1152 1200
103 104 106 107 108 110 1111 112 114 115 116 118 119 120 123 124 126 127 128 130	Glusses Glusse	in Glu in Glu	gati Asr gagg gagg gagg gagg gagg gagg gagg ga	acco Thr aagg aagg aagg aagg aagg aagg aagg aag	caa Gly caa Gln 325 tca Ser tat Tyr gcc Ala aca Thr	His 310 gaa Glu aca Thr ggg Gly cag Gln gcc Ala 390 cteu	ctg ctg Leu gac Asp tcc Ser 375 act Thr	cgc Ala cgc Al	ada Ile agg Arg 345 ttc Phe gtg Val gct Ala ctc Leu gag	gtc Val 3300 cag Gln cag Gln yal ccc Pro	Arg 315 ata 11e gtg Val Cat His Ser att Ile Gly Gly tgt	Asp ctg Leu aag Lys Val ctc Leu 380 aga Arg	cag gaaa gttc. phe 365 gct Ala cag gat gat	Phee ggg Gly gcc Alaa 350 tac Tyr gag Glu atc Ile gag Glu tgg	got Gly got Ala 335 togg Trr Phe	Pro 320 gct Ala Gly Gly cagc Ser atc Ile tct Ser 400 a gga Gly	1008 1056 1104 1152 1200
103 104 106 107 108 110 1111 112 114 115 116 118 119 120 123 124 126 127 128 130	Glusses Gly	in Glu in Glu	gati Asr gagg gagg gagg gagg gagg gagg gagg ga	acco Thr aagg aagg aagg aagg aagg aagg aagg aag	Gly caaa Gln 325 Ser tat Tyr gcc Ala ctg Leu Leu gag Glu	His 310 gaa Glu aca Thr ggg Gly cag Gln gcc Ala 390 cteu	ctg ctg Leu gac Asp tcc Ser 375 act Thr	cgc Ala cgc Al	ada Ile agg Arg 345 ttc Phe gtg Val gct Ala ctc Leu gag	gtc Val 3300 cag Gln cag Gln gtg Val ccc Pro	Arg 315 ata 11e gtg Val Cat His Ser att Ile Gly Gly tgt	Asp ctg Leu aag Lys Val ctc Leu 380 aga Arg	cag gaaa gttc. phe 365 gct Ala cag gat gat	Phee ggg Gly gcc Alaa 350 tac Tyr gag Glu atc Ile gag Glu tgg	got Gly got Alas 335 togg Trr Phe	Pro 320 gct Ala G ggg Gly c agc Ser L L L L L L L L L L L L L L L L L L L	1008 1056 1104 1152 1200

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					ctt Leu										1584
					atg Met										1632
163					ctc Leu 550										1680
					ccc Pro										1728
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	-			-	ggg Gly	-					-	-			1824
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						Leu											
		Ser	пец	GIII	Leu		пец	GIII	110	1113		Leu	Giu	JCI	ncu		
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	Gly	Asn	Ser		Ser	His	Ser	Ala		Lys	Ser	Leu	Cys		Thr	Leu	
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244	865					870					875					880	
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248	GLY	niu	D, 3	1115	885	Cys	0111	111 9	шси	890	01.11	110	DCI	0,5	895	D Cu	
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						gtc											2736
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255	Asn	Leú	Δla	Ser	Val	Leu	Ser	Āla	Ser	Pro	Ser	Leu	Lvs	Glu	Leu	Asp	
256			915					920					925			- 5	
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268	THE	1111	Leu	ser	965	GIU	net	Arg	GIII	970	ьеи	AIG	AIG	пеп	975	GIII	
	a 2 a	222	cot	can		ctc	atc	ttc	age	aga	caa	222	cca	aat		ato	2976
										Arg							2370
272	014	212		980	LCu	LCu			985		5	-10		990			
	acc	cct	act		aac	cta	gat	acq	qqa	gag	atq	aqt	aat	agc	aca	tcc	3024
										Glu							
276			995		-			1000	-				1005				
278	tca	ctc	aag	cgg	cag	aga	ctc	gga	tca	gag	agg	gcg	gct	tcc	cat	gtt	3072
279	Ser	Leu	Lys	Arg	Gln	Arg	Leu	Gly	Ser	Glu	Arg	Ala	Ala	Ser	His	Val	
280		L010					1015					1020					
										gtg							3120
			Ala	Asn		_	Leu	Leu	Asp	Val		Lys	Ile	Phe			
	102					1030					L035					1040	
										gag							3168
	Ala	Glu	He			GLu	Ser	Ser		Glu	Val	Vai	Pro			Leu	
288	44-			_	L045					1050		-4			1055	+	3216
										ggg Gly							3210
291	Leu	Cys		1060	ser	P10	Ald		1065	GIY	ASP	neu		L070	цуs	P10	
	tta	aaa	_		nat	a a c	ttc	_		ccc	aca	aaa	-		act	act	3264
										Pro							3204
296	Leu	-	1075	иор	пър	пор		1080	0 17			_	L085				
	gag			gac	aaa	gaa	_		ttq	tac	сча			ttc	cct	qta	3312
										Tyr							
300		1090			-1		1095			•	_	1100					
302	gct	ggc	tcc	tac	cgc	tgg	ccc	aac	acg	ggt	ctc	tgc	ttt	gtg	atg	aga	3360
303	Ala	Gly	Ser	Tyr	Arg	Trp	${\tt Pro}$	Asn	Thr	Gly	Leu	Cys	Phe	Val	Met	Arg	
304	110	5				1110				1	L115				3	120	
										tgt							3408
	Glu	Ala	Val			Glu	Ile	Glu		Cys	Val	\mathtt{Trp}	Asp			Leu	
308					L125				_	L130				_	L135		
										atg							3456
	Gly	Glu			Pro	GIn	His			Met	val	Ala			Leu	Leu	
312	~~~	a tr a	_	1140	~~~	aat	~~~		145	~~~	aat	~+~		L150	aat	~~~	3504
										gaa Glu							3504
316	мэр		.155	мта	Giu	FIU	-	1160	Val	Gra	AIG		1165	шеα	FIO	nis	
	+++	_		ctc	caa	aaa			ata	gac	aca			ttc	caa	atα	3552
										Asp							3332
320		170				-	175					1180				,	
322	qcc	cac	ttt	aaa	gag	gag	ggg	atg	ctc	ctg	gag	aag	cca	gcc	agg	gtg	3600
										Leu							
324	1185	ō		_	1	L190	_			1	195	-			1	200	
										ccc							3648
	Glu	Leu	His			Val	Leu	Glu		Pro	Ser	Phe	Ser			Gly	
328				1	L205				1	1210				1	1215		

VERIFICATION SUMMARY

DATE: 05/25/2000 TIME: 15:49:42

PATENT APPLICATION: US/09/388,221A

Input Set : A:\Lj36501.app
Output Set: N:\CRF3\05252000\I388221A.raw

L:2375 M:258 W: Mandatory Feature missing, <220> FEATURE: L:3037 M:258 W: Mandatory Feature missing, <220> FEATURE: